



SEQUENCE LISTING

<110> Watts, Colin

University of Dundee

<120> Enzyme Inhibition

<130> DUNW/P20631PC

<140> PCT/GB99/00963

<141> 1999-03-26

<150> GB 9806442.1

<151> 1998-03-26

<150> US 60/086966

<151> 1998-05-28

<160> 39

<170> PatentIn Ver. 2.0

<210> 1

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

sequence which may be comprised in a competitive
inhibitor of AEP

<400> 1

Ala Glu Asn Lys

1

<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

sequence which may be comprised in a competitive
inhibitor of AEP

<400> 2

Lys Asn Asn Glu

1

<210> 3

<211> 295

<212> PRT

<213> Homo sapiens

<400> 3

Met His Arg Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Pro Val Met

1

5

10

15

Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met Leu

20

25

30

Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala Leu

35

40

45

Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln Ala

50

55

60

Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys Leu

65

70

75

80

Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu

85

90

95

Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu

100

105

110

Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln

115

120

125

Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu

130

135

140

Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser

145	150	155	160
Phe Pro Glu Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp			
	165	170	175
Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met			
	180	185	190
Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Gln Pro Pro Lys Val			
	195	200	205
Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His Pro			
	210	215	220
Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro Leu			
	225	230	235
Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn Gly			
	245	250	255
Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser Glu			
	260	265	270
Ser Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln			
	275	280	285
Asp Leu Gly Pro Val Pro Met			
	290	295	

<210> 4

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Sequence

preceding tetanus toxin fragment

<400> 4

Met Gly His Gly His His His His His His His His His Ser Ser

1

5

10

15

Gly His Ile Glu Gly Arg His Ile

20

<210> 5

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<400> 5

cgctacactc cgaacgcggc gatcgattct ttcggt

<210> 6

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<400> 6

agcggataac aatttcacac agga

24

<210> 7

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<400> 7

gtaaaacgac ggccagt

17

<210> 8

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic
transferrin peptide

<400> 8

Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn
1 5 10 15

Phe Cys Leu Phe Arg Lys Lys Lys
20

<210> 9

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:cleavage
fragment from synthetic transferrin peptide

<400> 9

Gln Gln Gln His Leu Phe Gly Ser Asn
1 5

<210> 10

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:cleavage
fragment from synthetic transferrin peptide

<400> 10

Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg Lys Lys Lys
1 5 10 15

<210> 11

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:cleavage
fragment from synthetic transferrin peptide

<400> 11

Phe Cys Leu Phe Arg Lys Lys Lys
1 5

<210> 12

<211> 21

<212> PRT

<213> Homo sapiens

<400> 12

Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn

1

5

10

15

Phe Cys Leu Phe Arg

20

<210> 13

<211> 16

<212> PRT

<213> Homo sapiens

<400> 13

Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn

1

5

10

15

<210> 14

<211> 5

<212> PRT

<213> Homo sapiens

<400> 14

Phe Cys Leu Phe Arg

1

5

<210> 15

<211> 12

<212> PRT

<213> Homo sapiens

<400> 15

Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg

1

5

10

<210> 16

<211> 9

<212> PRT

<213> Homo sapiens

<400> 16

Gln Gln Gln His Leu Phe Gly Ser Asn

1

5

<210> 17

<211> 210

<212> PRT

<213> Homo sapiens

<400> 17

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met

1	5	10	15
Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala			
20	25	30	
Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln			
35	40	45	
Ala Thr Thr Ala Tyr Phe Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr			
50	55	60	
Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro			
65	70	75	80
Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu			
85	90	95	
Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Gln Asn Ala Thr			
100	105	110	
Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu Gln Asn			
115	120	125	
Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe Pro Glu			
130	135	140	
Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp Lys Val			
145	150	155	160

Phe Glu Met His His Trp Leu Leu Phe Glu Met Ser Arg His Ser Leu

165

170

175

Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Glu Ser Leu Glu Leu Glu

180

185

190

Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp Leu Gly Pro Val

195

200

205

Pro Met

210

<210> 18

<211> 10

<212> PRT

<213> Clostridium tetani

<400> 18

Arg His Ile Asp Asn Glu Glu Asp Ile Asp

1

5

10

<210> 19

<211> 10

<212> PRT

<213> Clostridium tetani

<400> 19

Tyr Thr Pro Asn Asn Glu Ile Asp Ser Phe

1 5 10

<210> 20

<211> 10

<212> PRT

<213> Clostridium tetani

<400> 20

Gly Asn Ala Phe Asn Asn Leu Asp Arg Ile

1 5 10

<210> 21

<211> 10

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism:commercial

ribonuclease

<400> 21

Asn Gly Gln Thr Asn Cys Tyr Gln Ser Tyr

1 5 10

<210> 22

<211> 10

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism:commercial
ribonuclease

<400> 22

Val Ala Cys Lys Asn Gly Gln Thr Asn Cys

1 5 10

<210> 23

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 23

Gly Thr Ser Val Asn Val His Ser Ser Leu

1 5 10

<210> 24

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 24

Gly Asn Gly Met Asn Ala Trp Val Ala Trp

1 5 10

<210> 25

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 25

His Gly Leu Asp Asn Tyr Arg Gly Tyr Ser

1 5 10

<210> 26

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 26

Ile Leu Gln Ile Asn Ser Arg Trp Trp Cys

1 5 10

<210> 27

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 27

Val Ser Asp Gly Asn Gly Met Asn Ala Trp

1 5 10

<210> 28

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 28

Arg Trp Trp Cys Asn Asp Gly Arg Thr Pro

1 5 10

<210> 29

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 29

Val Ala Trp Arg Asn Arg Cys Lys Gly Thr

1 5 10

<210> 30

<211> 10

<212> PRT

<213> Homo sapiens

<400> 30

Leu Phe Gly Ser Asn Val Thr Asp Cys Ser

1 5 10

<210> 31

<211> 10

<212> PRT

<213> Homo sapiens

<400> 31

Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg

1 5 10

<210> 32

<211> 15

<212> PRT

<213> Homo sapiens

<400> 32

Lys Gly Ile Gly Ser Gly Lys Val Leu Lys Ser Gly Pro Gln Cys

1 5 10 15

<210> 33

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
sequence control for a competitive
inhibitor of AEP

<400> 33

Ala Glu Gln Lys

1

<210> 34

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
sequence control for a competitive
inhibitor of AEP

<400> 34

Lys Gln Gln Glu

1

<210> 35

<211> 7

<212> PRT

<213> Homo sapiens

<400> 35

Asn Asn Glu Gln Leu Pro Met

1 5

<210> 36

<211> 6

<212> PRT

<213> Homo sapiens

<400> 36

Asn Thr Met Glu Thr Ile

1 5

<210> 37

<211> 5

<212> PRT

<213> Homo sapiens

<400> 37

Asn Leu Arg Met Lys

1 5

<210> 38

<211> 19

<212> PRT

<213> Homo sapiens

<400> 38

Cys Val Phe Pro Asn Gly Thr Glu Val Pro Asn Thr Arg Ser Arg Gly

1

5

10

15

His His Asn

<210> 39

<211> 19

<212> PRT

<213> Homo sapiens

<400> 39

Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu

1

5

10

15

Gln Asn Ala